Landlords 19-11231-mew Doc 21-20 Filed 06/24/19 Entered 06/24/19 19:30:03 second asbestos report Pg 1 of 5



EMSL Analytical, Inc.

307 West 38th Street, New York, NY 10018

Phone/Fax: (212)290-0051 / (212)290-0058 http://www.EMSL.com manhattanlab@emsl.com

Project: STLLX18001/220 FIFTH AVENUE/ NEW YORK/ BASEMENT - CEILING

EMSL Order #: 031806296 PNNJ42 Customer ID: **Not Available** Customer PO:

Ralph Coppola

Pennoni

24 Commerce Street

Suite 300

Newark, NJ 07102

Phone: 973-265-9775

Fax: Not Available

Date Collected: 03/20/2018

Date Received: 03/30/2018 Date Analyzed: 03/26/2018

Report Date: 03/26/2018 Revision: R0

Asbestos Analysis of NYS ELAP Method 198.8 PLM Analysis for Asbestos in Bulk Surfacing Materials Containing Vermiculite

	Client Sample		Percentage Matrix	Percentage non-	Chrysotile	Amphibole	
Lab Number	Identification	Appearance	Material	Asbestos Fibers	Percentage	Percentage	Total Percentage
		Tan					
		Fibrous			No Asbestos	No Asbestos	No Asbestos
031806296-0001	01-A	Homogeneous	100	0.0	Detected	Detected	Detected
		Tan					
		Fibrous			No Asbestos	No Asbestos	No Asbestos
031806296-0002	01-B	Homogeneous	100	0.0	Detected	Detected	Detected
		Tan					
		Fibrous			No Asbestos	No Asbestos	No Asbestos
031806296-0003	01-C	Homogeneous	100	0.0	Detected	Detected	Detected

Report Date Report Revision **Revision Comments** 03/26/2018 Initial Report R0

> James Hall, Laboratory Manager or other approved signatory

031806296-PNNJ42-R0.xlsm 2.5.7 Page 1 of 5



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Phone/Fax: (212)290-0051 / (212)290-0058

http://www.EMSL.com manhattanlab@emsl.com

EMSL Order #: 031806296

Customer ID: PNNJ42 Customer PO: Not Available

Asbestos Analysis of NYS ELAP Method 198.8 PLM Analysis for Asbestos in Bulk Surfacing Materials Containing Vermiculite

Bench Sheet

EMSL Sample ID 031806296-0001

Crucible ID:

	Analyst	Date
Gravimetric Prep	JC	3/23/2018
Chrysotile Analysis	JW	3/25/2018
Centrifugation Date	DL	3/25/2018
Amphibole Analysis	YC	3/26/2018

	Stereoscopic									
Color	Tan	Stereoscopic % Asbestos								
Texture	Fibrous									
Homogeneity	Homogeneous	Vermiculite Detected	Yes							

Initial Weights*		Non-Asbestos Fiber Optical Property Visual % Calc %					Calc %		
Weight of Crucible	1.8529		NO	ONE				0	
Weight of Crucible and Sub Sample	5.2357							0	
Weight of Sub-Sample	3.3828								
Ashing									
Weight of Crucible & Ash	4.5968		Chryso	tile Identification	on Optical Pro	perties		Temperature (C°)	27.4
Weight of Ash	2.7439	⊥ RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight Loss During Ashing	0.6389								1
Weight Percent Organic and Water	18.8867								1
Acid Treatment/ Flotation									1
Weight of Dish for Floats	8.5986								1
Weight of Dish & Floats	8.8407		•		•				
Weight of Floats	0.2421		Amphil	oole Identificati	on Optical Pro	perties		Temperature (C°)	20.2
Weight Percent Floats	7.1568	⊥ RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight of Dish & Filter for Residue	8.4281								
Weight of Dish & Filter & Residue	9.1439								
Weight of Residue	0.7158								
Weight Loss During Acid/Flotation Treatment	1.7860								
Weight Percent Acid-Soluble/Float Materials	52.7965		•		•		•		
Weight Percent Residue	21.1600								

PLM Examination of Residue (Chrysotile)	Analyzed	PTCT	Chrysotile	Non-Empty	PTCT:	Chrysotile	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Chrysotile Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Chrysotile by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
(if greater than 1% no further analysis needed)	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Heavy Liquid Centrifugation	
Weight of Dish & Filter & Balance of Residue (Post Chrysotile Analysis)	9.0927
Weight of Balance of Residue	0.6646
Weight of Dish & Filter for Centrifugate	8.3742
Weight of Dish & Filter & Centrifugate	8.4206
Weight of Centrifugate	0.0464
Weight Percent Centrifiugate	1.4773

PLM Examination of Centrifugate (Amphibole)	Analyzed	PTCT	Amphibole	Non-Empty	PTCT	Amphibole	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Amphibole Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Amphibole by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
Percent Amphibole in Sample	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Percent of Total Asbestos in Sample	0.0000
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EMSL Order #: 031806296

Customer ID: PNNJ42 Customer PO: Not Available

Asbestos Analysis of NYS ELAP Method 198.8 PLM Analysis for Asbestos in Bulk Surfacing Materials Containing Vermiculite

Bench Sheet

EMSL Sample ID 031806296-0002

Crucible ID:

	Analyst	Date
Gravimetric Prep	JC	3/23/2018
Chrysotile Analysis	JW	3/25/2018
Centrifugation Date	DL	3/25/2018
Amphibole Analysis	YC	3/26/2018

	Stereoscopic									
Color	Tan	Stereoscopic % Asbestos								
Texture	Fibrous									
Homogeneity	Homogeneous	Vermiculite Detected	Yes							

Initial Weights*		Non-Asbestos Fiber Optical Property Visual % Calc %					Calc %		
Weight of Crucible	1.8739		NO	ONE				0	
Weight of Crucible and Sub Sample	5.2370							0	
Weight of Sub-Sample	3.3631								
Ashing									
Weight of Crucible & Ash	4.6226		Chryso	tile Identification	on Optical Pro	perties		Temperature (C°)	27.3
Weight of Ash	2.7487	⊥RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight Loss During Ashing	0.6144								1
Weight Percent Organic and Water	18.2689								1
Acid Treatment/ Flotation									1
Weight of Dish for Floats	8.4161								1
Weight of Dish & Floats	8.5331				•				
Weight of Floats	0.1170		Amphib	oole Identification	on Optical Pro	perties		Temperature (C°)	20.2
Weight Percent Floats	3.4789	⊥RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight of Dish & Filter for Residue	8.6843								
Weight of Dish & Filter & Residue	9.5405								
Weight of Residue	0.8562								
Weight Loss During Acid/Flotation Treatment	1.7755								
Weight Percent Acid-Soluble/Float Materials	52.7936				1		•		
Weight Percent Residue	25.4587	ı							

PLM Examination of Residue (Chrysotile)	Analyzed	PTCT	Chrysotile	Non-Empty	PTCT:	Chrysotile	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Chrysotile Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Chrysotile by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
(if greater than 1% no further analysis needed)	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Heavy Liquid Centrifugation	
Weight of Dish & Filter & Balance of Residue (Post Chrysotile Analysis)	9.4189
Weight of Balance of Residue	0.7346
Weight of Dish & Filter for Centrifugate	8.4544
Weight of Dish & Filter & Centrifugate	8.5112
Weight of Centrifugate	0.0568
Weight Percent Centrifiugate	1.9685

PLM Examination of Centrifugate (Amphibole)	Analyzed	PTCT	Amphibole	Non-Empty	PTCT	Amphibole	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Amphibole Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Amphibole by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
Percent Amphibole in Sample	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Percent of Total Asbestos in Sample	0.0000
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EMSL Order #: 031806296

Customer ID: PNNJ42 Customer PO: Not Available

Asbestos Analysis of NYS ELAP Method 198.8 PLM Analysis for Asbestos in Bulk Surfacing Materials Containing Vermiculite

Bench Sheet

EMSL Sample ID 031806296-0003

Crucible ID:

	Analyst	Date
Gravimetric Prep	JC	3/23/2018
Chrysotile Analysis	JW	3/25/2018
Centrifugation Date	DL	3/25/2018
Amphibole Analysis	YC	3/26/2018

Stereoscopic								
Color	Tan	Stereoscopic % Asbestos						
Texture	Fibrous							
Homogeneity	Homogeneous	Vermiculite Detected	Yes					

Initial Weights*			Non-Asbe	estos Fiber	Optical	Property	Visual %	Calc %	
Weight of Crucible	1.8897		NONE					0	
Weight of Crucible and Sub Sample	5.1992							0	
Weight of Sub-Sample	3.3095								
Ashing									
Weight of Crucible & Ash	4.5952		Chryso	tile Identification	on Optical Prop	perties		Temperature (C°)	27.2
Weight of Ash	2.7055	⊥RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight Loss During Ashing	0.6040								1
Weight Percent Organic and Water	18.2505								1
Acid Treatment/ Flotation									1
Weight of Dish for Floats	8.6505								1
Weight of Dish & Floats	8.9334		•	•	•				
Weight of Floats	0.2829		Amphib	ole Identification	on Optical Pro	perties		Temperature (C°)	20.2
Weight Percent Floats	8.5481	⊥RI	IIRI	Morphology	Sign	Pleochorism	Birefringence	Fiber Color	Extinction
Weight of Dish & Filter for Residue	8.7008								
Weight of Dish & Filter & Residue	9.4015								
Weight of Residue	0.7007								
Weight Loss During Acid/Flotation Treatment	1.7219								
Weight Percent Acid-Soluble/Float Materials	52.0290								
Weight Percent Residue	21.1724								

PLM Examination of Residue (Chrysotile)	Analyzed	PTCT	Chrysotile	Non-Empty	PTCT:	Chrysotile	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Chrysotile Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Chrysotile by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
(if greater than 1% no further analysis needed)	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Heavy Liquid Centrifugation	
Weight of Dish & Filter & Balance of Residue (Post Chrysotile Analysis)	9.3149
Weight of Balance of Residue	0.6141
Weight of Dish & Filter for Centrifugate	8.6346
Weight of Dish & Filter & Centrifugate	8.6741
Weight of Centrifugate	0.0395
Weight Percent Centrifiugate	1.3618

PLM Examination of Centrifugate (Amphibole)	Analyzed	PTCT	Amphibole	Non-Empty	PTCT	Amphibole	Non-Empty	Trace Detected?
Number of Occupied Points	400	Slide 1:	0	50	Slide 5:	0	50	None
Number of Amphibole Points	0	Slide 2:	0	50	Slide 6:	0	50	Check box if yes
Percent Amphibole by PTCT	0.00	Slide 3:	0	50	Slide 7:	0	50	
Percent Amphibole in Sample	0.0000	Slide 4:	0	50	Slide 8:	0	50	

Percent of Total Asbestos in Sample	0.0000
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19-11231-mew Doc 21-20 Filed 06/24/19 Entered 06/24/19 19:30:03 Landlords

EMSL Analytical, Inc. second asbestos report Pg 5 of 5 307 West 38th Street, New York, NY 10018

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Customer ID: PNNJ42
Customer PO: Not Available

Attn: Ralph Coppola Phone: 973-265-9775
Pennoni Fax: Not Available

24 Commerce Street Suite 300 Newark, NJ 07102

Project: STLLX18001/220 FIFTH AVENUE/ NEW YORK/ BASEMENT - Date Received 03/30/2018

Date Analyzed: **03/26/2018**

Date Collected: 03/20/2018

Report Date 03/26/2018

MSI

Report Revision R0 Revision Comments
Initial Report

James Hall, Laboratory Manager or other approved signatory

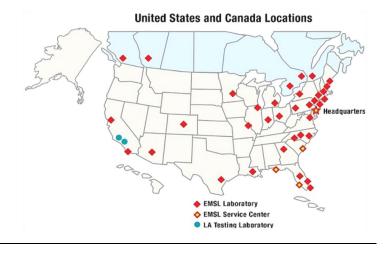
James PAID

Additional Comments: NYS ELAP# 11506

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